

IN THE CLAIMS:

Listing of claims:

1. (Original) A dispenser module, comprising:
 - a housing;
 - a fluid reception chamber provided within said housing and having a rod passageway formed in the fluid reception chamber and at least one port in fluid passage communication with said passageway;
 - a rod received in said rod passageway;
 - locking means for preventing fluid reception chamber adjustment in conjunction with an adjustment in position of said rod.
2. (Original) The dispenser module of claim 1 wherein said fluid reception chamber is formed of a cold flow block of material with a hole formed therein to define said rod passageway.
3. (Original) The dispenser module of claim 2 further comprising compression means for imposing compressive forces on said fluid reception chamber.
4. (Original) The dispenser module of claim 3 wherein said compression means includes a set of Belleville washers.
5. (Currently Amended) The dispenser module of claim 1 wherein said locking means includes a projection/recess projection and recess relationship between said housing and said fluid reception chamber.
6. (Currently Amended) The dispenser module of claim 5 wherein said projection/recess projection and recess relationship includes an annular projection in one of said housing and fluid reception chamber and a receiving recess formed in a corresponding one of said housing and fluid reception chamber.

7. (Original) The dispenser module of claim 6 wherein said projection is formed closer to a first end of said fluid reception chamber than a second end.

8. (Original) The dispenser module of claim 7 wherein said first end is a front discharge end of said fluid reception chamber.

9. (Original) The dispenser module of claim 8 wherein said projection is formed at a forwardmost end portion of said fluid reception chamber.

10. (Original) The dispenser module of 8 wherein said fluid reception chamber has the projection.

11. (Original) The dispenser module of claim 5 wherein said projection extends over a majority of a periphery of said fluid reception chamber.

12. (Currently Amended) The dispenser module of claim 11 wherein said projection extends continuously without interruption 1 further comprising compression means for compressing said fluid reception chamber in a compression direction extending toward a discharge end of said dispenser, and said locking means precludes a pull back in said fluid reception chamber in an axial direction opposite the compression direction upon a binding of said rod with said fluid reception chamber.

13. (Original) The dispenser module of claim 5 wherein said projection extends continuously without interruption.

14. (Original) The dispenser module of claim 13 wherein said projection is an annular projection ring.

15. (Original) The dispenser module of claim 14 wherein said projection extends essentially entirely about the periphery of said fluid reception chamber.

16. (Original) The dispenser module of claim 13 wherein said projection extends radially outward from a main body of said fluid reception chamber.

17. (Original) The dispenser module of claim 16 wherein said projection and main body are formed as an integrated, monolithic unit.

18. (Original) The dispenser module of claim 16 wherein said projection has a radial extension that represents 5 to 15% of a maximum diameter of said fluid reception chamber.

19. (Original) The dispenser module of claim 5 wherein said projection extends about a peripheral area of said mixing chamber and said projection includes multiple projection members arranged about that peripheral area of said fluid reception chamber.

20. (Original) The dispenser of claim 1 wherein said rod is dimensioned to seal off an exit opening in said port upon reciprocation of said rod past said exit opening.

21. (Currently Amended) The dispenser module of claim 20 wherein there are at least two radially extending chemical ports formed in said fluid reception chamber and said fluid reception chamber comprises a cold flow block of material having an axial through passageway, and said rod passageway is represented by ~~an~~ the axial through passageway in ~~a~~ the cold flow block of material forming said fluid reception chamber.

22. (Original) The dispenser module of claim 1 further comprising compression means and wherein said fluid reception chamber is formed of a cold flow material which is compressed within said housing by said compression means, and rod is dimensioned relative to said fluid reception chamber such that in use a sticking relationship is assumed and said fluid reception chamber retains a pre-stick position despite said compression means being potentially adjustable in configuration upon being subjected to compression.

23. (Original) The dispenser module of claim 1 wherein said fluid reception chamber includes two chemical inlet ports that open into said rod passageway for mixing when said rod is in a retracted state.

24. (Original) The dispenser module of claim 23 wherein said rod is dimensioned so as to seal off said chemical inlet ports when in a non-retracted state.

25. (Original) The dispenser module of claim 24 further comprising compression means, and wherein said fluid reception chamber is formed of a cold flow material subject to compressive forces of said compression means.

26. (Original) The dispenser of claim 25 wherein said locking means comprises an enlarged portion of said fluid reception chamber which is received by a reception area in said housing.

27. (Original) The dispenser module of claim 26 wherein said enlarged portion is an annular projection formed at a forward discharge end of said fluid reception chamber.

28. (Original) The dispenser module of claim 1 wherein said dispenser module is a two or more chemical mixing module comprising in axial series a housing back closure member, compression means, the fluid reception chamber which is formed of a cold flow material and includes at least two chemical inlet ports opening into said rod passageway and a front closure member.

29. (Original) The dispenser module of claim 28 wherein said housing front and back closure members are releasably fixed to said housing.

30. (Original) The dispenser module of claim 1 further comprising compression means and wherein said fluid reception chamber is formed of a cold flow material and compressed by said compression means, and wherein said housing has an open front end and an open rear end, and said front and rear are closed off by respective front and rear closure members.

31. (Original) The dispenser module of claim 30 wherein at least one of said front and rear closure members are in a threaded engagement with said housing.

32. (Original) The dispenser module of claim 31 wherein each of said front and rear closure members are in threaded engagement with said housing.

33. (Original) The dispenser module of claim 32 wherein said compression means includes Belleville washers.

34. (Original) The dispenser module of claim 1 wherein said fluid reception chamber is formed of Teflon material and includes two chemical inlet ports which open into said rod passageway and said housing has chemical feed apertures in communication with said chemical inlet ports.

35. (Currently Amended) A mixing module for a two chemical component dispenser system, comprising:

a housing having a reception cavity and front and rear ends;

a mixing chamber formed of a cold flow material and received in said housing, and said mixing chamber having first and second chemical ports and a rod passageway formed therein;

a rod received in said rod passageway;

a compression device which is positioned within said housing in a compression relationship with said mixing chamber;

a front closure cap releasably secured to the front of said housing and having a chemical discharge cavity formed in said front closure cap, and with the front closure cap being releasable from a state of securement by adjustment of said cap in a direction forward of a front end of said mixing module;

a rear closure cap releasably secured to the rear of said housing and having a rod reception cavity formed in said rear closure cap.

36. (Original) The mixing module of claim 35 wherein at least one of said front and rear closure caps are in threaded engagement with said housing.

37. (Original) The mixing module of claim 36 wherein each of said front and rear closure caps are in threaded engagement with said housing.

38. (Original) The mixing module of claim 37 wherein said front closure cap is secured to said housing so as to be hand removable without tools and wherein said rear closure cap has tool engagement means for facilitating tool removal of said rear closure cap from said housing.

39. (Original) The mixing module of claim 35 wherein said mixing chamber includes rod stick movement prevention means for preventing movement of said mixing chamber with the rod as a unit relative to the compression means when the rod becomes stuck to the mixing chamber during operation.

40. (Currently Amended) The mixing module of claim 35 wherein said mixing chamber and housing include ~~male/female~~ male and female locking members which are positioned to preclude axial movement of said mixing chamber as a whole within said housing.

41. (Original) The mixing module of claim 40 wherein said male locking member includes an annular front ring extension in said mixing chamber which is received in an annular female recessed section at a front region of said housing.

42. (Original) The mixing module of claim 35 wherein said housing includes a solvent fill port opening into said housing and a solvent port cover which is releasably fixed to said housing.

43. (Original) The mixing module of claim 42 wherein said solvent port cover includes threads that engage port opening threads of said housing.

44. (Original) The mixing module of claim 43 further comprising a seal member which seals off said solvent port opening together with said port cover.

45. (Currently Amended) A mixing module, comprising:
a housing;

a mixing chamber formed of a cold flow material and having a chemical inlet port and a rod passageway;

a rod received within said mixing chamber;

a compression device positioned within said housing and in a compressive relationship with said mixing chamber, and

said mixing chamber and said housing being in a male/female male projection and female recess locking relationship.

46. (Currently Amended) The mixing module of claim 45 wherein said male/female male projection and female recess locking relationship includes an annular male projection on one of said housing and mixing module chamber and a corresponding female recess receiving said male projection on an opposite one of said housing and mixing module chamber.

47. (Currently Amended) The mixing module of claim 45 wherein said mixing chamber has an enlarged forward end forming a male locking member and said housing has a recess formed in a front end for receiving said enlarged forward end of said mixing module chamber.

48. (Original) The mixing module of claim 45 wherein said housing has open front and rear ends and said mixing module further comprises front and rear closure caps releasably secured to said housing.

49. (Original) The mixing module of claim 48 wherein each of said front and rear closure caps are threadably secured to said housing.

50. (Original) The mixing module of claim 49 further comprising a solvent access closure cap in threaded engagement with a wall of said housing.

51. (Original) A mixing module, comprising:

a housing;

a mixing chamber formed of a cold flow material and having a rod passageway and a pair of chemical inlet ports opening into said rod passageway;

a valving rod received within said mixing chamber and adjustable between a chemical inlet ports seal off mode and a chemical free passage mode;

compression means within said housing for compressing the cold flow material of said mixing chamber, and

said mixing chamber and said housing having means for preventing adjustment of said mixing chamber relative to said compression means when said rod and mixing chamber temporarily join together in dispensing operation.

52. (Previously Presented) A method of assembling the module of claim 35 comprising; inserting into said housing (i) said compression device, (ii) said rod, (iii) said fluid reception chamber with said fluid reception chamber receiving the rod and being placed in a state of compression by the compression device; and arranging for locking means between the fluid reception chamber and the housing to preclude fluid reception chamber movement despite a rod stick relationship between the rod and the fluid reception chamber upon a retraction of the rod.

53. (Previously Presented) The method of claim 52 wherein assembling the module includes releasably securing a front cap and a rear cap to said housing.

54. (Previously Presented) The method of claim 52 further comprising inserting solvent into a solvent opening formed in the module housing and plugging the opening with a solvent opening plug cap.

55. (Previously Presented) A method of dispensing a foam mix with the module of claim 35 comprising preventing relative movement of said mixing chamber and the housing receiving that mixing chamber despite a sticking together of a valving rod reciprocating

within the mixing chamber and despite the potential for movement of said compression device compressing the mixing chamber were it not for the locking means.

56. (Previously Presented) The dispenser module as recited in claim 1 wherein the rod is a reciprocating rod and said locking means precludes adjustment of said fluid reception chamber during rod retraction from a forward most position of reciprocation and while said rod, prior to retraction, is in a chemical bond relationship with chemical in said fluid reception chamber.

57. (Previously Presented) The dispenser module as recited in claim 1 further comprising a compression device and wherein said locking means includes a radially expanded forward end formed in said fluid reception chamber, and said expanded forward end is received within a recess provided in said housing and a rearward end of said fluid reception chamber is subject to said compression device biasing said fluid reception chamber axially forward.

58. (Previously Presented) The dispenser module as recited in claim 57 wherein said fluid reception chamber is formed of a cold flow material, and said dispenser module further comprises a forwardmost positioned cap arranged to limit axial forward movement in said cold flow material being axially biased forward by said compression device.

59. (Previously Presented) The mixing module device of claim 57 further comprising a threaded cap positioned at a forward end of said mixing module device as to sandwich said radially expanded forward end of said locking means between said threaded cap and a housing contact wall portion in contact with a rear portion of said radially expanded forward end.

60. (New) The dispenser module of claim 1 wherein said housing has a forward discharge end and a rear end, and said locking means is positioned axially forward of said port.

61. (New) A dispenser module, comprising :

a housing having a forward discharge end and a rear end;

a block of cold flow material positioned within said housing and having a rod passageway formed therein;

a rod extending within said rod passageway;

a compression device that biases said block toward the forward discharge end of said housing, said block having a chemical port that opens into said rod passageway, and said block having a section that, in conjunction with said housing, locks said block in an axial position despite a bonding of said rod to said block and a generation of a pulling force on said rod and bonded block against a bias direction of said compression device.

62. (New) The dispenser module of claim 61 wherein said section of said block is an enlarged forward end of said block that is received within a recess formed in said housing at the forward discharge end.